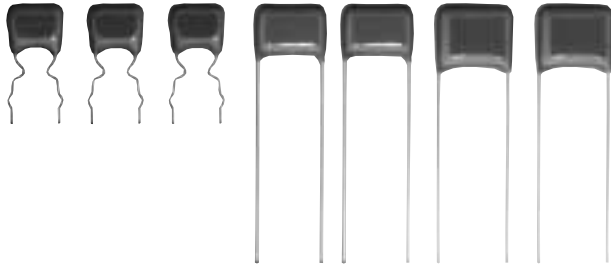


Type DSF Polyester Capacitors

Stacked Metallized Radial Leads



Subminiature Size

Type DSF film capacitors are made with stacked metallized polyester, resulting in high volumetric efficiency and a very economical solution for general purpose DC applications. Ideally suited for blocking, by-pass, coupling, decoupling, and filtering circuits. Specifically designed for applications where high density insertion of components is required. Ammo box style or reel taping available.

Specifications

Voltage Range: 50-100 Vdc (63 Vdc Optional)

Capacitance Range: .010-2.2 μ F

Capacitance Tolerance: \pm 5% (J) standard

Operating Temperature Range: -40 to + 85°C

Full rated voltage at 85°C-Derate linearly to 50% - rated voltage at 125°C

Dielectric Strength: Rated Vdc x 150 %, 60 sec.

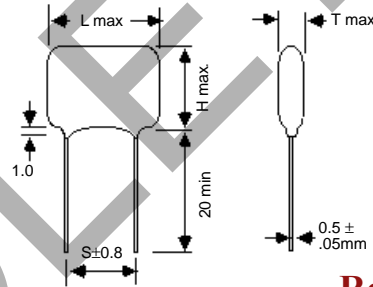
Dissipation Factor: 1% max (25°C, 1 kHz)

Insulation Resistance: C \leq 0.33 μ F : 3000M Ω min.

C $>$ 0.33 μ F : 1000M Ω · μ F min.

Life Test: 1000 h @ 85 °C, 125% rated voltage

Pulse Capability		
Rated Volts	Body Length (mm)	
	7.3, 7.5	10.2
dV/dt volts per microsecond, max.		
50	32 - 37	12
100	55	43



Lead Spacing	
L	S
<10	5.0
\geq 10	7.5

Ratings and Dimensions

RoHS Compliant

Cap. (μ F)	Catalog Part Number	T Inches(mm)	H Inches(mm)	L Inches(mm)	S Inches(mm)
50 Vdc					
0.010	DSF050J103	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.012	DSF050J123	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.015	DSF050J153	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.018	DSF050J183	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.022	DSF050J223	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.027	DSF050J273	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.033	DSF050J333	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.039	DSF050J393	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.047	DSF050J473	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.056	DSF050J563	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.068	DSF050J683	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.082	DSF050J823	0.142 (3.6)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.100	DSF050J104	0.157 (4.0)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.120	DSF050J124	0.157 (4.0)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)
0.150	DSF050J154	0.173 (4.4)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)
0.180	DSF050J184	0.177 (4.5)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)
0.220	DSF050J224	0.189 (4.8)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)
0.270	DSF050J274	0.181 (4.6)	0.276 (7.0)	0.287 (7.3)	0.197 (5.0)
0.330	DSF050J334	0.205 (5.2)	0.276 (7.0)	0.287 (7.3)	0.197 (5.0)
0.390	DSF050J394	0.224 (5.7)	0.287 (7.3)	0.287 (7.3)	0.197 (5.0)
0.470	DSF050J474	0.236 (6.0)	0.287 (7.3)	0.287 (7.3)	0.197 (5.0)
0.560	DSF050J564	0.228 (5.8)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)
0.680	DSF050J684	0.256 (6.5)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)
0.820	DSF050J824	0.268 (6.8)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)
1.000	DSF050J105	0.315 (8.0)	0.433 (11.0)	0.287 (7.3)	0.197 (5.0)

Cap. (μ F)	Catalog Part Number	T Inches(mm)	H In. (mm)	L Inches(mm)	S Inches(mm)
100 Vdc					
1.200	DSF050J125	0.256 (6.5)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)
1.500	DSF050J155	0.283 (7.2)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)
1.800	DSF050J185	0.283 (7.2)	0.472 (12.0)	0.402 (10.2)	0.295 (7.5)
2.200	DSF050J225	0.311 (7.9)	0.472 (12.0)	0.402 (10.2)	0.295 (7.5)
0.010	DSF100J103	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.012	DSF100J123	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.015	DSF100J153	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.018	DSF100J183	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.022	DSF100J223	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.027	DSF100J273	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.033	DSF100J333	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.039	DSF100J393	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.047	DSF100J473	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.056	DSF100J563	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.068	DSF100J683	0.157 (4.0)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.082	DSF100J823	0.161 (4.1)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.100	DSF100J104	0.177 (4.5)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)
0.120	DSF100J124	0.130 (3.3)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)
0.150	DSF100J154	0.130 (3.3)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)
0.180	DSF100J184	0.142 (3.6)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)
0.220	DSF100J224	0.157 (4.0)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)
0.270	DSF100J274	0.165 (4.2)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)
0.330	DSF100J334	0.189 (4.8)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)
0.390	DSF100J394	0.217 (5.5)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)
0.470	DSF100J474	0.268 (6.8)	0.413 (10.5)	0.402 (10.2)	0.295 (7.5)

Type DSF Polyester Capacitors

DSF
Dipped
Stacked
Film
Type

050
Voltage
Code
050 = 50 Vdc
100 = 100 Vdc

J
Capacitance
Tolerance
J = $\pm 5\%$

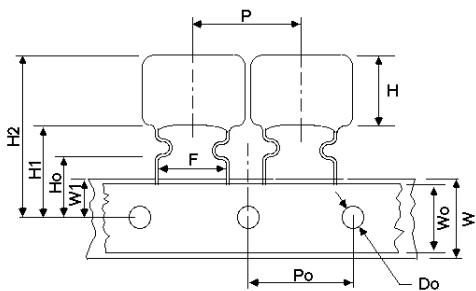
223
Nominal
Capacitance
(First two digits are significant
figures. Last digit is multiplier
to give cap in pF)
e.g. 223 = 22×10^3 pF = .022 μ F
104 = 10×10^4 pF = .100 μ F
155 = 15×10^5 pF = 1.50 μ F

C
Bulk and Ammo
Packaging Options
Blank = Straight lead, Bulk
C = Crimped, Bulk
CA = Crimped Lead, Ammo Pack
TA = Straight Lead, Ammo Pack

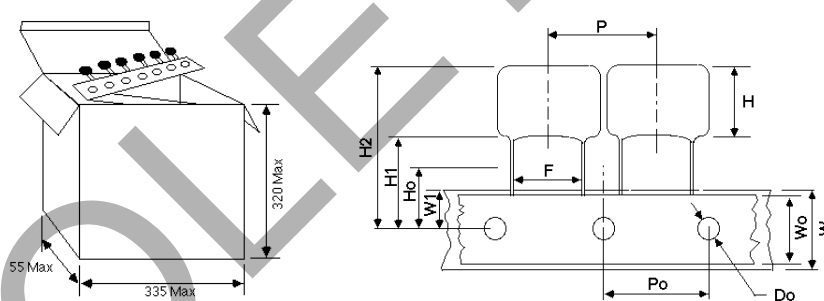
*Tape & Reel packaging available.
Contact us for detailed specs.*

Ammo Pack Options

Crimped Lead Ammo Pack Option (CA)



Straight Lead Ammo Pack Option (TA)



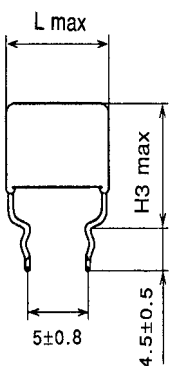
PACKAGE QUANTITY FOR AMMO PACK CRIMPED LEAD OPTION (CA) & (CR)		
WVDC	Capacitance Range	Quantity
50	0.01 - 0.12	2000
	0.15 - 2.2	1000
100	0.01 - 0.068	2000
	0.082 - 0.1	1000
	0.12 - 0.22	2000
	0.27 - 0.47	1000

PACKAGE QUANTITY FOR AMMO PACK STRAIGHT LEAD OPTION (TA) & (TR)		
WVDC	Capacitance Range	Quantity
50	0.01 - 0.12	2000
	0.15 to 1.0	1000
100	0.01 - 0.068	2000
	0.082 - 0.1	1000

Bulk Cut & Crimp Styles

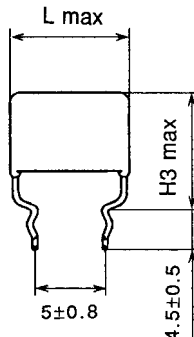
Crimp style depends on capacitor length.

$L \leq 10.0$ mm



WVDC	H3 max. (mm)
50	H+4.5
100	H+5.0

$L > 10.0$ mm



AMMO PACK TAPING SPECIFICATIONS

	Dimensions for Crimped Option (CA)	Dimensions for Straight Lead Option (TA)	Tol. (mm)
Lead Spacing (F)	5.0	5.0	+8/-2
Capacitor Pitch (P)	12.7	12.7	± 1
Feed Hole Pitch (Po)	12.7	12.7	± 2
Carrier Width (W)	18.0	18.0	± 5
Feed Hole Position (W1)	9.0	9.0	± 5
Height of Seating Plane (H1)	20.0	20.0	± 5
Lead Wire Clinch Height (Ho)	16.0	---	± 5
Feed Hole Diameter (Do)	4.0	4.0	± 2
Case Top to Feed Hole (H2) Max.	20.5 + Hmax	20.5 + Hmax	Max.

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[MKPY2-.02230020P15](#) [MKT 1813-368-015](#) [4055292001](#) [46KN410000N1K](#) [EEC2E106HQA405](#) [EEC2G205HQA402](#) [EEC2G805HQA415](#)
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